

Title (en)
Communications connector terminal arrays having noise cancelling capabilities.

Title (de)
Anschlusstruktur von Verbindern der Nachrichtentechnik mit Rauschunterdrückung.

Title (fr)
Structures de terminaux de connecteur de communication capable d'éliminer le bruit.

Publication
EP 0633632 A3 19960703 (EN)

Application
EP 94110605 A 19940707

Priority
US 8893493 A 19930708

Abstract (en)
[origin: US5362257A] This invention relates to electrical connector terminal arrays, having interference canceling characteristics that meet or exceed the performance requirements of Category 5 components. The arrays are suited for producing connectors of the type for mounting to a printed circuit board. The connectors comprise a dielectric housing into which are mounted four pairs of electrical conductors. The conductors are arranged essentially in parallel fashion where the respective one ends thereof are spaced apart a first uniform distance, and the other respective ends thereof are spaced apart a second uniform distance greater than the first uniform distance. The conductors are further characterized by being arranged in a non-contact overlapping arrangement with the respective conductors of each outer pair in a single overlap of each other. The respective conductors of the center pair cross each other and then each crosses the adjacent conductor twice. By this arrangement, for an 8-conductor connector of the plug and receptacle type, the inner pairs of conductors exhibit a NEXT Loss of at least 45.00 at 100 MHz.

IPC 1-7
H01R 23/02; **H01R 23/68**

IPC 8 full level
H01R 13/02 (2006.01); **H01R 13/6467** (2011.01); **H01R 24/00** (2006.01); **H04Q 1/02** (2006.01); **H05K 1/14** (2006.01); **H01R 24/64** (2011.01)

CPC (source: EP KR US)
H01R 11/05 (2013.01 - KR); **H01R 13/03** (2013.01 - KR); **H01R 13/6467** (2013.01 - EP US); **H01R 24/64** (2013.01 - EP US);
Y10S 439/941 (2013.01 - EP US)

Citation (search report)
• [AD] US 5186647 A 19930216 - DENKMANN W JOHN [US], et al
• [A] EP 0337632 A1 19891018 - AMP INC [US]
• [A] US 3757028 A 19730904 - SCHLESSEL J
• [A] DE 8901012 U1 19890309

Cited by
DE19938367C2

Designated contracting state (EPC)
CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
US 5362257 A 19941108; AU 6308894 A 19950119; AU 673061 B2 19961024; BR 9402637 A 19950404; CA 2123260 A1 19950109; CA 2123260 C 20040914; CN 1044761 C 19990818; CN 1100879 A 19950329; DE 69423824 D1 20000511; EP 0633632 A2 19950111; EP 0633632 A3 19960703; EP 0633632 B1 20000405; JP 3400123 B2 20030428; JP H07106010 A 19950421; KR 100340693 B1 20021118; KR 950004642 A 19950218; TW 224547 B 19940601

DOCDB simple family (application)
US 8893493 A 19930708; AU 6308894 A 19940513; BR 9402637 A 19940705; CA 2123260 A 19940510; CN 94108188 A 19940706; DE 69423824 T 19940707; EP 94110605 A 19940707; JP 18090394 A 19940708; KR 19940015966 A 19940705; TW 82110692 A 19931217